

Substitute Specification

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MRI-127

DESCRIPTIONDEVICES FOR NUCLEAR SPIN TOMOGRAPHY MAGNETIC
RESONANCE IMAGING (MRI)Cross-Reference to Related Application

This application claims priority to German Application No. 10108581.8, filed February 22, 2001.

Background of Invention

In today's interventional nuclear spin tomography MRI, it is desirable to utilize materials of a certain elasticity, such as is used in springs, in biopsy and other automated needles, and cardiovascular or other cavity stents. Titanium based materials exhibiting low field distortion, or image artifacts, in nuclear spin tomography, are in part too brittle and have insufficient elasticity. Filigree structures imaging isn't optimal either.

Brief Summary of the Invention

The subject invention pertains to devices for use in nuclear spin tomography magnetic resonance imaging (MRI). The subject devices incorporate materials having desirable properties, such as elasticity. In a specific embodiment, the subject device can incorporate stainless steels of a cobalt-nickel chrome-based alloy. The subject invention relates to devices for nuclear spin tomography MRI, such as springs, automated needles, stents, cardiovascular stents, torsion springs, coil springs, membranes, and guide wires.

Detailed Description of the Invention

The subject invention pertains to devices for use in nuclear spin tomography magnetic resonance imaging (MRI). The subject devices incorporate materials having desirable properties, such as elasticity. In a specific embodiment, the subject device can incorporate stainless steels of a cobalt-nickel chrome-based alloy. The subject invention

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